RRRRRRRRRRR	MMM MMM	SSSSSSSSSS
RRRRRRRRRRR	MMM MMM	SSSSSSSSSS
RRRRRRRRRRR	MMM MMM	SSSSSSSSSS
RRR RRR	MMMMMM MMMMMM	SSS
RRR RRR	MMMMMM MMMMMM	SSS
RRR RRR	ммммм мммммм	SSS
RRR RRR	MMM MMM MMM	SSS
RRR RRR	MMM MMM MMM	SSS
• • • • • • • • • • • • • • • • • • • •		SSS
	MMM MMM MMM	
RRRRRRRRRRR	MMM MMM	SSSSSSSS
RRRRRRRRRRR	MMM MMM	SSSSSSSS
RRRRRRRRRRR	MMM MMM	SSSSSSSS
RRR RRR	MMM MMM	SSS
RRR RRR	MMM MMM	SSS
RRR RRR	MMM MMM	ŠSS
RRR RRR	MMM MMM	ŠŠŠ
RRR RRR	MMM MMM	SSS
RRR RRR	MMM MMM	ŠŠŠ
RRR RRR	MMM MMM	SSSSSSSSSSS
• • • • • • • • • • • • • • • • • • • •		\$\$\$\$\$\$\$\$\$\$\$\$\$
RRR RRR	MMM MMM	\$\$\$\$\$\$\$\$\$\$\$\$

_\$;

NT!
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• • • •

RRRRRRR RRRRRRR RR RR RR RR RR RR RR RRRRRR	MM MM MMMM MMMM MMMM MMMM MM MM MM MM MM	\$	000000 000000 000000 000000 000000 00000	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	\$	
		\$				

RMSOFSCN Table of contents (2) (3)

SCAN FILENAME STRING SYSTEM SERVICE 16-SEP-1984 01:19:32 VAX/VMS Macro V04-00

DECLARATIONS RMS\$FILESCAN - \$FILESCAN ROUTINE

56 :--

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16-SEP-1984 01:19:32 VAX/VMS Macro V04-00 5-SEP-1984 16:24:59 [RMS.SRC]RMSOFSCN.MAR:1

ge 1 (1)

\$BEGIN RMSOFSCN,000,RM\$RMS,<SCAN FILENAME STRING SYSTEM SERVICE>

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; FACILITY: RMS32

ABSTRACT:

Routine to perform the \$FILESCAN function to scan a string in order to recognize a file specification.

ENVIRONMENT:

AUTHOR: Ron Schaefer, Creation Date: 13-Apr-1983

Modified By:

V03-005 JEJ0028 J E Johnson 11-Apr-1984 Minor equate file cleanup.

V03-004 RAS0223 Ron Schaefer 16-Dec-1983 Change \$SCBDEF and SCB\$xxx to \$FSCBDEF and FSCB\$xxx.

V03-003 KBT0575 Keith B. Thompson 5-Aug-1983 Add new parameter and root directory field

V03-002 SOP0001 J. R. Sopka 20 July 1983
Access LENGTH and POINTER fields of file specification string descriptor separately as WORD and LONGWORD fields respectively. This routine assumes that the descriptor is not a varying length string type which points to a current length count followed by the ASCII text characters.

RMSOFSCN V04-000 SCAN FILENAME STRING SYSTEM SERVICE

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16-SEP-1984 01:19:32
5-SEP-1984 16:24:59
RMS$FILESCAN - $FILESCAN ROUTINE
                                                                                      [RMS.SRC]RMSOFSCN.MAR:1
                 84
85
86
87
                                 .SBTTL RMS$FILESCAN - $FILESCAN ROUTINE
       ŎŎŎŎ
       ŎŎŎŎ
       0000
                        RMS$FILESCAN - Scan a string for a file specification
                  88
       0000
       0000
                  89
                          This module performs the following functions:
       0000
                  90
                                1. Checks for valid input string.
2. Calls RM$SCAN_STRING to parse the input string.
3. Checks for valid output descriptor list.
4. Copies the information returned by RM$SCAN_STRING
       ŎŎŎŎ
                  91
       0000
       0000
       0000
       0000
                  95
                                     into the output descriptor list.
                 96
97
       ŎŎŎŎ
       0000
                        CALLING SEQUENCE:
       0000
       0000
                                 Entered from EXEC as a result of user's calling SYS$FILESCAN
       0000
       0000
                101
                        INPUT PARAMETERS:
                102
       0000
       0000
                                 STRDESC
                                            = fixed-length type text string descriptor for the
       0000
                104
                                  4(AP)
                                                       file specification string to be parsed.
       0000
                105
       0000
                106
                        IMPLICIT INPUTS:
       0000
                107
       0000
                108
                                 None
       0000
                109
       0000
                        OUTPUT PARAMETERS:
                110
       0000
                111
                                            = List of item descriptors for the information to be returned.
Each descriptor contains an ITEM_CODE field specifying
a portion of the file specification string for which
a LENGTH and ADDR are to be returned.
       0000
                112
                                 DESCLST
       0000
                113
                                  8(AP)
       0000
                114
       0000
                115
       0000
                116
       0000
                117
                                 FLDFLAGS = Longword to receive flags of which fields are present
       0000
                                  12(AP)
                                                       in the string (optional)
       0000
       0000
                                            destroyed
                121
       0000
                                 RO
                                            status code
       0000
                122
123
124
125
126
127
128
129
       0000
                        IMPLICIT OUTPUTS:
       0000
       0000
                                 None
       0000
       0000
                        COMPLETION CODES:
       0000
                                 SS$_NORMAL
SS$_ACCVIO
       0000
       0000
                130
       0000
                131
                                 SS$_BADPARAM
                132
133
134
135
136
137
       0000
       0000
```

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 $(\overline{3})$

SCAN FILENAME STRING SYSTEM SERVICE

SIDE EFFECTS:

None

RMSOFSCN VO4-000

				0000 14 0000 14	0	SENTRY	RMS\$FILESCAN
5E	57 04 00000104 00000000	8F 5E EF AC 2B	DO 3C DO C2 DO 16 DO 13 3C 13	0000 14 0000 14 0000 14 0000 14 0000 14 0001 14 0017 14 0018 15 0021 15 0021 15 0020 15 0033 15 0037 15 0039 15 004 15	NXTITM:	MOVZWL Begl	## ACCVIO
	50	14	D0 04	002 J 150 000 0 160 00 0 160 00 40 160 00 40 160 00 40 160 00 40 160 00 54 160 00 557 160 00 58 160		MOVL RET	FILESPEC,- NODE,- DEVICE,- ROOT,- DIRECTORY,- NAME,- TYPE,- VERSION> #SS\$_BADPARAM,RO ; FSCN\$_FILESPEC ; FSCN\$_FILESPEC ; FSCN\$_NODE ; FSCN\$_DEVICE ; FSCN\$_ROOT ; FSCN\$_DIRECTORY ; FSCN\$_NAME ; FSCN\$_TYPE ; FSCN\$_TYPE ; FSCN\$_VERSION ; no such item
	5A OC	AC 09	D0 13	0.58 170 005 170 005E 170 0064 173) DONE:	MOVL BEQL IFNOWRT	• • • • • • • • • • • • • • • • • • • •
				0054 174 0064 175 0064 176 0064 176 0064 175 0064 186 0064 186		ASSUME ASSUME ASSUME ASSUME ASSUME ASSUME	FSCB\$V_NODE EQ FSCN\$V_NODE FSCB\$V_DEVICE EQ FSCN\$V_DEVICE FSCB\$V_ROOT EQ FSCN\$V_ROOT FSCB\$V_DIRECTORY EQ FSCN\$V_DIRECTORY FSCB\$V_NAME EQ FSCN\$V_NAME FSCB\$V_TYPE EQ FSCN\$V_TYPE FSCB\$V_VERSION EQ FSCN\$V_VERSION
	6 A	6B	9A	0064 187	, chicked	MOVZBL	FSCB\$B_FLDFLAGS(R11),(R10) ; store flags
	50	01	D0 04	0067 183 0067 184 006A 185 006B 186		MOVL RET	#SS\$_NORMAL,RO ; success
	50	O C	D0 04	006B 188 006E 188 006F 188	ACCVIO:	MOVL RET	#SS\$_ACCVIO,RO ; return accvio
	5A F	6A AA 08 FB9	B4 D4 C0 31	006F 190 006F 19 0071 193 0074 193 0077 194	NULLITEI NITEM:	CLRW CLRL ADDL2 BRW	<pre>fSCN\$W_LENGTH(R10)</pre>

																					
RMSOFSCN V04-000					SCAN RMS\$	FILENAM FILESCAN	ME STRI N - S FI	ING SYS	STEM SERV N ROUTINE	I 16 ICE	16	-SEP	-1984 -1984	01:	19:32 24:59	VAX.	/VMS M S.SRC]	acro RMS01	V04-00 FSCN.MAR;1	Page	(4)
	04	6A AA	04 08	6B F1 AB AB EB	95 13 80 00 11	007C 007E 0082	197 198 199 200 201	.	BEQL MOVW MOVL	FSCB\$B NULLIT FSCB\$Q FSCB\$Q NITEM	EM				NSW_L SCNSL	ENGTH _ADDR			any field t length t addr	present?	
	04	6A AA	E2 00 10	00 6B AB AB DC	E1 B0 D0 11	0089 0089 008B 008D 0091 0096	203 204 205 206 207		MOVW	WFSCB\$9 FSCB\$B FSCB\$Q FSCB\$Q NITEM	_FLDF _NODE	LAGS (R11).FSC	NSW	LENGT	H(R10))	; se1	this field t length t addr	present	?
	04	6A AA	D3 14 18	01 6B AB AB CD	B0 D0 11	00A0 00A5	212 213		MUVW	WFSCB\$ FSCB\$B FSCB\$Q FSCB\$Q NITEM	DEVI	CE (R	11).F	SCN	W LEN	GTH(R)	10)		; is th t length t addr	is field	pres
	04	6A AA	C4 1C 20	02 6B AB AB BE	B0 D0 11	00A7 00A9 00AB 00AF 00B4	216 217 218 219		MOVW	WFSCB\$9 FSCB\$B FSCB\$Q FSCB\$Q NITEM	_FLDF _ROOT	LAGS (R11.),FSC	INSW_	LENGT	H(R10))	; set	this field t length t addr	presenti	?
	04	6A AA	B5 24 28	03 6B AB AB AF	E1 B0 D0 11	0086 0086 0088 0088 0085 0005	220 221 DI 222 223 224 225 226 227 228 NA		BBC MOVW	#FSCB\$\ FSCB\$B FSCB\$Q FSCB\$Q NITEM	DIKE	LIUK	TIRLI	7.53	CN2M	LENGII	1(R10)		this field ; set l ; set a	ength	?
	04	6A AA	A6 20 30	04 68 AB AB AO	E1 B0 D0 11	00C5	229		MOVU (WFSCB\$N FSCB\$B FSCB\$Q FSCB\$Q NITEM	-FLDF	LAGS) [CC	MCL	LENCT	H(R10) R(R10)		; set	this field t length t addr	present	?
	04	6A AA	97 34 38	05 6B AB AB 91	E1 B0 D0 11	0004 0004 0006 0008 0000 0000	235 TY 236 237 238 239 240		BBC (MOVW MOVL BRB	WFSCB\$N FSCB\$B FSCB\$Q FSCB\$Q NITEM	TYP FLDF TYPE	E,- LÁGS (R11) +4(R	(R11)),FSC 1),F	, NUL NSW SCNS	LITEM LENGT L_ADD	H(R10) R(R10))	; set	this field t length t addr	present?	?
	04	6A AA	88 30 40	06 68 AB AB 82	E1 B0 D0 11	00DC 00E1 00E3 00E3 00E5 00E7 00EB 00F0 00F2	231 231 2333 2334 2336 7 2233 2336 7 2244 7 2445 2447 2449		MOVW (WFSCB\$N FSCB\$B FSCB\$Q FSCB\$Q NITEM	_FLDF _VERS	LAGS	(R11) R11),	FSCN	SW_LEI	NGTH (F ADDR (F	(10)	; set	this field t length t addr	present?	

```
J 16
 RMSOFSCN
                                             SCAN FILENAME STRING SYSTEM SERVICE
 Symbol table
 $$.PSECT_EP
                                            = 00000000
 SSRMSTEST
                                            = 0000001A
SSRMS_PBUGCHK
SSRMS_TBUGCHK
SSRMS_UMODE
ACCVIO
                                            = 00000010
                                            = 00000008
                                            = 00000004
                                               0000006B
DEVICE
                                               00000098 R
                                                                    01
                                               000000B6 R
DIRECTORY
 DONE
                                               00000058 R
                                                                    01
DSCSA_POINTER
DSCSK_S_BLN
DSCSW_LENGTH
FILESPEC
                                            = 00000004
                                            = 00000008
                                            = 00000000
                                               0000007A R
                                                                    01
FSCB$B_FLDFLAGS
                                            = 00000000
FSCBSC_BLN
                                            = 00000104
FSCBSQ_DEVICE
FSCBSQ_DIRECTURY
FSCBSQ_FILESPEC
FSCBSQ_NAME
FSCBSQ_NODE
                                            = 00000014
                                            = 00000024
                                           = 00000004
                                           = 0000002C
                                            = 0000000C
FSCB$Q_ROOT
                                            = 0000001c
FSCB$Q_TYPE
FSCB$Q_VERSION
                                            = 00000034
                                            = 0000003C
FSCB$Q_VERSION
FSCB$V_DEVICE
FSCB$V_DIRECTORY
FSCB$V_NODE
FSCB$V_NODE
FSCB$V_TYPE
FSCB$V_VERSION
FSCN$L_ADDR
FSCN$V_DEVICE
FSCN$V_DEVICE
FSCN$V_NAME
FSCN$V_NAME
FSCN$V_NODE
FSCN$V_ROOT
                                            = 00000001
                                           = 00000003
                                            = 00000004
                                            = 00000000
                                            = 00000002
                                            = 00000005
                                           = 00000006
                                           = 00000004
                                           = 00000008
                                           = 00000001
                                           = 00000003
                                           = 00000004
                                           = 00000000
FSCNSV_ROOT
FSCNSV_TYPE
FSCNSV_VERSION
FSCNSW_ITEM_CODE
                                            = 00000002
                                           = 00000005
                                           = 00000006
                                            = 00000002
FSCNSW LENGTH
                                            = 00000000
                                            = 00000001
FSCNS_FILESPEC
                                               000000C5 R
NAME
                                                                   01
01
                                               00000074 R
NITEM
                                               00000089 R
NODE
NULLITEM
                                               0000006F R
                                                                    01
                                                                    Ŏİ
                                               00000033 R
 NXTITM
 RM$SCAN_STRING
                                               ******
                                                                    01
                                            = FFFFFFFE RG
000000A7 R
 RMSSFILESCAN
                                                                    01
ROOT
                                                                    Õ1
SS$_ACCVIO
                                            = 0000000C
                                            = 00000014
 SS$_BADPARAM
                                            = 00000001
 SS$_NORMAL
 SUCCESS
                                               00000067 R
 TYPE
                                                                    Õ1
                                               000000D4 R
                                                                    01
 VERSION
                                               000000E3 R
```

16-SEP-1984 01:19:32 VAX/VMS Macro V04-00 5-SEP-1984 16:24:59 [RMS.SRC]RMSOFSCN.MAR;1

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RMSOFSCN Psect synopsis	SCAN FILENAM	IE STRIN	IG SYSTEM SE	K 16 ERVICE	16-SEP-1 5-SEP-1	1984 01: 1984 16:	:19:32 :24:59	VAX/VMS M [RMS.SRC]	acro VO4- RMSOFSCN.	00 MAR;1	Page	(
! Psect synopsis !													
PSECT name	Allocation		PSECT No.	Attribute	S								
. ABS . RM\$RMS \$ABS\$	00000000 (00000000 (242.) 0.)	00 (0.) 01 (1.) 02 (2.)	PIC U	SR CON SR CON SR CON	ABS REL ABS	LCL N		RD NO	WRT NOVE	CBYTE		
! Performance indicators !													
Phase Pa	ge faults CPU	Time	Elapsed	d Time									
Initialization Command processing Pass 1 Symbol table sort Pass 2 Symbol table output Psect synopsis output Cross-reference output Assembler run totals	121 00:0 272 00:0 0 00:0 59 00:0 8 00:0 2 00:0	0:00.08 0:00.72 0:06.82 0:01.09 0:01.26 0:00.07	00:00:0 00:00:0 00:00:0 00:00:0 00:00:0 00:00:	04.08 20.12 01.53 04.08 00.08 00.02									
The working set limit was 1200 pages. 36271 bytes (71 pages) of virtual memory were used to buffer the intermediate code. There were 40 pages of symbol table space allocated to hold 696 non-local and 2 local symbols. 249 source lines were read in Pass 1, producing 13 object records in Pass 2. 18 pages of virtual memory were used to define 17 macros.													
		! Macro	library st	atistics!									
Macro library name		Macros	defined										
_\$255\$DUA28:[RMS.OBJ]RMS.ML _\$255\$DUA28:[SYS.OBJ]LIB.ML _\$255\$DUA28:[SYSLIB]STARLET TOTALS (all libraries)	B;1 B;1 .MLB;2		4 3 6 13										

8 (4)

794 GETS were required to define 13 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:RMSOFSCN/OBJ=OBJ\$:RMSOFSCN MSRC\$:RMSOFSCN/UPDATE=(ENH\$:RMSOFSCN)+EXECML\$/LIB+LIB\$:RMS/LIB

0329 AH-BT13A-SE

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